

No

Yes (provide details below)

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Air Operating Permit Excess Emissions Report Form Part II

Name of Facility	Shell, Puget Sound Refinery	Reported by		Tim Figgie	
Date of notification	February 12, 2015	Incident type breakdown/ or shutdown	e: upset/startup	Breakdown	
Start Date	February 12, 2015	Start Time:		2:00 PM	
End Date	February 12, 2015	End Time:		3:00 PM	
Process unit or system	n(s): Flare				
Incident Description				,	
On February 12, 2015 sweet flare header. Tremove liquids from throuted to the sour flar temporary line was roevent the liquid movel equipment failure. The cause of this event conservice to prevent a resulted in very low possible.	he sour gas originate ne plant fuel gas line. e line but the primary uted to an alternate or was removed from see inspection did not related to the determined eoccurrence.	d from Liquid Mo The vent line for system was our system that vent service and inspected. The liquid mo w but contain a	over 21NG72, a or this liquid me t of service for ed to the swee ected to determ failure point. Tover system ha	a system designed to over is normally repair. Therefore, a st flare. After the nine the cause of the Therefore, the exact as been isolated from tion of H2S. This	
This event resulted in	2 periods above the :	162ppm H2S 3-ł	our rolling ave	rage limit.	
Immediate steps taken to limit the duration and/or quantity of excess emissions:					
The FGR system was operating to recovery as much excess flare gas as possible.					
Applicable air operating permit term(s): 5.11.8					
Estimated Excess Emissions: Pollutant(s SO2 Based on online H2S CEMS and fuel gas flow meters		ː(s):	Pounds (Estimate): 1		
Scheduled Scheduled Poor or inaction Careless, p Poor or inaction A reasonab	result of the followin equipment startup equipment shutdown dequate design oor, or inadequate opdequate maintenance by preventable condit	peration ion	apply):		

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Did the incident recult in the violation of an ambient air quality standard
Did the incident result in the violation of an ambient air quality standard
NoYes (provide details below)
Root and other contributing causes of incident:
The root cause of this event was related to the liquid mover system 21NG72 but a specific cause could not be determined.
The root cause of the incident was:
(The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615)) Identified for the first time
Identified as a recurrence (explain previous incident(s) below – provide dates)
The root cause of this event was related to the liquid mover system 21NG72 but a specific cause could not be determined. High H2S readings occurred in the flare on April 18, 2013 due to a liquid mover system failure.
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions
below?
No No
Yes (describe below) The root cause of this event was related to the liquid mover system 21NG72 but a specific cause
could not be determined.
<u>Definition of NSPS "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2
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Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost;
determine if an outside consultant should be retained to assist with analyses):
The liquid mover system was inspected and cleaned.
Description of corrective action to be taken (include commencement and completion dates):
See above
If connection not required explain basis for conclusion.
If correction not required, explain basis for conclusion: See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing? \(\simegle \text{No}\) \(\simegle \text{Yes}\) Is the source requesting additional time for completion of the report? \(\simegle \text{No}\) \(\simegle \text{Yes}\)
Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.

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Prepared By: _ Tim Figgie

Date: _____ March 17/2015

Responsible Official or Designee:

oate: __/